

solid state communications

**an international journal
volume 105**



Pergamon

SOLID STATE COMMUNICATIONS

EDITOR-IN-CHIEF, MANUEL CARDONA

ASSOCIATE EDITOR-IN-CHIEF, ARON PINCZUK

BOARD OF EDITORS

H. AKAI, *Osaka*

S. ALEXANDER, *Rehovot*

G. BASTARD, *Paris*

P. BURLET, *Grenoble*

C. CALANDRA, *Modena*

L. L. CHANG, *Clear Water Bay*

R. G. CLARK, *New South Wales*

M. F. COLLINS, *Hamilton*

J. H. DAVIES, *Santa Barbara*

P. H. DEDERICH, *Jülich*

F. J. DiSALVO, *Ithaca*

R. C. DYNES, *La Jolla*

A. L. EFROS, *Salt Lake City*

H. ESCHRIG, *Dresden*

Z. GAN, *Beijing*

C. E. T. GONÇALVES DA SILVA,
Campinas

M. GRYNBERG, *Warsaw*

E. L. IVCHENKO, *St Petersburg*

J. JOFFRIN, *Paris*

H. KAMIMURA, *Tokyo*

L. V. KELDYSH, *Moscow*

J. KUHL, *Stuttgart*

D. J. LOCKWOOD, *Ottawa*

H. VON LÖHNESEN, *Karlsruhe*

S. G. LOUIE, *Berkeley*

B. LUNDQVIST, *Göteborg*

A. H. MACDONALD, *Bloomington*

E. E. MENDEZ, *Stony Brook*

E. MOLINARI, *Modena*

R. PHILLIPS, *Cambridge*

C. N. R. RAO, *Bangalore*

T. TSUZUKI, *Sendai*

S. USHIODA, *Sendai*

D. VAN DYCK, *Antwerp*

P. WACHTER, *Zürich*

F. YNDURÁIN, *Madrid*

A. ZAWADOWSKI, *Budapest*

Department of Physics, Graduate School of Science, Osaka University, 1-16 Machikaneyama, Toyonaka, Osaka 560, Japan

Department of Chemical Physics, Weizmann Institute of Science, Rehovot 76100, Israel

Laboratoire de Physique de la Matière Condensée de l'ENS, 24 rue L'homond, F-75231 Paris Cedex 05, France

CEA Grenoble, DRFMC/SPSMS - MDN, F-3804 Grenoble Cedex 09, France

Università di Modena, Dipt. di Fisica, Via Campi 213/A, I-41100 Modena, Italy

Hong Kong University of Science and Technology, Clear Water Bay, Kowloon, Hong Kong

National Pulsed Magnet Laboratory, The University of New South Wales, P.O. Box 1, Kensington, New South Wales, Australia, 2033

Department of Physics and Astronomy, McMaster University, Hamilton, Ontario L8S 4M1, Canada

Center for Quantized Electronic Structures, University of California, Santa Barbara, CA 93106, U.S.A.

Institut für Festkörperforschung der Kernforschungsanlage Jülich, GmbH, Postfach 1913 D-52428 Jülich, Germany

Cornell University, Chemistry Department, Baker Laboratory, Ithaca, NY 14853-1301, U.S.A.

University of California, Physics Department, La Jolla, CA 92093, U.S.A.

On leave from September 1997 until September 1998. Department of Physics, University of Utah, 201 Fletcher Building, Salt Lake City, UT 84112, U.S.A.

MPG Research Group Electron Systems, Department of Physics, TU Dresden, D-01062 Dresden, Germany

Department of Physics, Peking University, Beijing 100871, People's Republic of China

Laboratório Nacional de Luz Sincrotron/CNPq/MCT, Caixa Postal 6192, Campinas 13081-970 SP, Brazil

Institute of Experimental Physics, University of Warsaw, ul. Hoza 69, PL-00681 Warsaw, Poland

A. F. Ioffe Physico-Technical Institute, Politechnicheskaya 26, 194021 St Petersburg, Russia

Université Paris-Sud, Laboratoire de Physique des Solides, Bâtiment 510, F-91405 Orsay, France

The Science University of Tokyo, Department of Applied Physics, Faculty of Science, 1-3 Kagurazaka, Shinjuku-ku, Tokyo 162, Japan

P. N. Lebedev Institute, Academy of Sciences of the U.S.S.R. Leninskii Prospect 53, 117924 Moscow, Russia

Max-Planck-Institut für Festkörperforschung, Heisenbergstrasse 1, D-70569 Stuttgart, Germany

IMS, Building M-36, National Research Council, Ottawa, Ontario K1A 0R6, Canada

Physikalisches Institut der Universität Karlsruhe (TH), Engesserstrasse 7, D-76128 Karlsruhe, Germany

University of California, Physics Department, 366 Le Conte Hall Nr. 7300, Berkeley, CA 94720-7300, U.S.A.

Institute of Theoretical Physics, Chalmers University of Technology, S-412 96 Göteborg, Sweden

Department of Physics, Indiana University, Bloomington, IN 47405, U.S.A.

Department of Physics, State University of New York at Stony Brook, Stony Brook, NY 11794-3800, U.S.A.

Dipartimento di Fisica, Università di Modena, Via Campi 213/A, I-41100 Modena, Italy

Cavendish Laboratories, Madingley Road, Cambridge CB3 0HE, U.K.

Indian Institute of Science, CSIR Centre of Excellence in Chemistry, Bangalore 560012, India

Department of Physics, Faculty of Science, Tohoku University, Aoba-ku, Sendai 980, Japan

Research Institute of Electrical Communication, Tohoku University, Sendai 980-77, Japan

University of Antwerp (RUCA), Groenenborgerlaan 171, B-2020 Antwerp, Belgium

Laboratorium für Festkörperphysik der ETH, CH-8093 Zürich, Hönggerberg, Switzerland

Dpto. de Física de la Materia Condensada C-III, Universidad Autónoma de Madrid, Cantoblanco, 28049-Madrid, Spain

Institute of Physics, Technical University of Budapest, XI.Budafoki út. 8, H-1521 Budapest, Hungary

PRODUCTION CONTACT

T. BEUZEVAL, RAM Journals, Elsevier Science Ltd, The Boulevard, Langford Lane, Kidlington, Oxford OX5 1GB, U.K.

SOLID STATE COMMUNICATIONS is a companion journal to **THE JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS**.

Publishing Offices: Elsevier Science Inc., 655 Avenue of the Americas, New York, NY 10010, U.S.A.; Elsevier Science Ltd, The Boulevard, Langford Lane, Kidlington, Oxford OX5 1GB, U.K. Tel.: Oxford (01865) 843000. Fax.: Oxford (01865) 843010.

Advertising Offices: Europe & Rest of the World: The Advertising Department, Elsevier Sciences Ltd, The Boulevard, Langford Lane, Kidlington, Oxford OX5 1GB, U.K. [Tel: (+44) (0) 1865 843565, Fax: (+44) (0) 1865 843976, E-mail: media@elsevier.co.uk]. **U.S.A., Canada and South America:** Tino De Carlo, The Advertising Department, Elsevier Science Inc, 655 Avenue of the Americas, New York, NY 10010, U.S.A. [Tel: (+1) (212) 633 3815, Fax: (+1) (212) 633 3820, E-mail: t.carlo@elsevier.com]. **Japan:** The Advertising Department, Elsevier Science Japan [Tel: (+81) (3) 5561 5033, Fax: (+81) (3) 5561 5047].

Copyright © 1998 Elsevier Science Ltd

Annual Institutional Subscription Rates 1998: Europe, The CIS and Japan, 4996 Dutch Guilders. All other countries, US\$ 2871. Associated Personal Subscription rates are available on request for those whose institutions are library subscribers. Dutch Guilders prices exclude VAT. Non-VAT registered customers in the European Community will be charged the appropriate VAT in addition to the price listed. Prices include postage and insurance and are subject to change without notice.

Any enquiries to subscriptions should be sent to: **The Americas:** Elsevier Science, Customer Support Department, PO Box 945, New York, NY 10010, U.S.A. [Tel: (+1) 212-633-3730/1-888 4ES-INFO, Fax: (+1) 212-633-3680, E-mail: usinfo-f@elsevier.com]. **Japan:** Elsevier Science, Customer Support Department, 9-15 Higashi-Azabu 1-chome, Minato-ku, Tokyo 106, Japan [Tel: (+3) 5561-5033, Fax: (+3) 5561-5047, E-mail: info@elsevier.co.jp]. **Asia Pacific (excluding Japan):** Elsevier Science (Singapore) Pte Ltd, No. 1 Temasek Avenue, 17-01 Millenia Tower, Singapore 039192 [Tel: (+65) 434-3727, Fax: (+65) 337-2230, E-mail: asianfo@elsevier.com.sg]. **Rest of the World:** Elsevier Science, Customer Service Department, PO Box 211, 1001 AE Amsterdam, The Netherlands [Tel: (+31) 20-485-3757, Fax: (+31) 20-485-3432, E-mail: nlinfo-f@elsevier.nl].

Back Issues: Back issues of all previously published volumes, in both hard copy and on microform, are available direct from Elsevier Science offices (Oxford, New York).

PERIODICALS POSTAGE PAID AT RAHWAY, NEW JERSEY AND ADDITIONAL ENTRY POINTS. Solid State Communications (ISSN 0038-1098) is published four issues per month January to December in four volumes, by Elsevier Science Ltd, The Boulevard, Langford Lane, Kidlington, Oxford OX5 1GB, U.K. The annual subscription in the U.S.A. is \$2871. Solid State Communications is distributed by Mercury Airfreight, 10 Camptown Road, Irvington, New Jersey 07111-1105. **POSTMASTER:** Please send address corrections to Solid State Communications, c/o Elsevier Science Regional Sales Office, Customer Support Department, 655 Avenue of the Americas, New York, NY 10010.

JANUARY

VOLUME 105, NUMBER 1

1998

(Published 21 November 1997)

CONTENTS

III Publishers Announcement

- N.-Y. Lee, I. Hwang, J.-E. Kim, H. Y. Park,
H. K. Kwon, B. D. Choe and H. Lim
- S. Okamoto, Y. Kanemitsu, H. Hosokawa,
K. Murakoshi and S. Yanagida
- M. N. Grecu, P. Cevc and R. Blinc
- K. J. Kim, M. H. Lee, J. H. Bahng, C. Y. Kwak
and E. Oh
- N. M. Gasanly, A. Aydinli, A. Bek and I. Yilmaz
- M. Chung, H.-S. Chang, Y. J. Doh and H.-J. Lee
- S. H. Han, Y. Zhao, C. F. Yang, C. H. Cheng,
H. Zhang, G. D. Gu, G. J. Russell and
N. Koshizuka
- S. García, J. E. Musa, B. Giordanengo and
E. M. Baggio-Saitovitch
- R. Shen and Z.-Z. Li
- G. C. Rout, B. N. Panda and S. N. Behra
- B. Yang, X. Wu, C. Zhang, S. Wu, Y. Zheng,
T. Lu and W.-H. Su
- D.-H. Li, F.-Z. Li and Y.-Y. Zhou
- E. Z. Kurmaev, A. V. Ezhov, V. M. Cherkashenko,
S. N. Shamin, S. Bartkowski, M. Neumann and
A. K. Gangopadhyay
- J.-M. Liu
- 1 Photoluminescence due to hole capturing of DX^- centers in $In_{0.32}Ga_{0.68}P:S$
- 7 Photoluminescence from surface-capped CdS nanocrystals by selective excitation
- 13 EPR study of low temperature phase transitions in Mn^{2+} doped K_2ZnCl_4
- 17 Optical properties of $Zn_{1-x}Mg_xSe/GaAs(001)$ epitaxial films studied by spectroscopic ellipsometry
- 21 Low-temperature photoluminescence spectra of layered semiconductor $TlGaS_2$
- 25 The c -axis dissipation and vortex phases in $Bi_2Sr_2CaCu_2O_{8+x}$ crystals
- 31 Vortex-glass-liquid transition in $Bi_2Sr_2CaCu_2O_8/Bi_2Sr_2Ca_2Cu_3O_{10}$ intergrowth single crystals
- 37 Two regimes behavior in the resistivity of the $La_{1.85}Sr_{0.15}Cu_{1-x}Li_xO_4$ system: a signature of different electronic states for holes
- 41 Pressure effects on the Curie temperature of the colossal magnetoresistance manganites
- 47 Microscopy theory of velocity of sound in $L_{2-x}M_xCuO_4$ ($L = Nd, La, Pr, Gd; M = Sr, Ce$)
- 53 Calculation of the electrical field in the periodic composite and evaluation of the nonlinear susceptibility of the periodic composite
- 59 EPR parameters of Cr^{2+} ions in semiconductors CdS and CdTe
- 65 Electronic structure of $YNi_{1-x}Cu_xBC$ studied by X-ray emission and photoelectron spectroscopy
- 71 Demonstration of spinodal decomposition in amorphous $Cu_{12.5}Ni_{10}Zr_{41}Ti_{14}Be_{22.5}$ alloy

i Keywords

JANUARY

VOLUME 105, NUMBER 2

1998

(Published 5 December 1997)

CONTENTS

III Publisher's Announcement

- G. E. Zardas, D. E. Theodorou, P. C. Euthymiou,
Ch. I. Symeonides, F. Riesz and B. Szentpall
- 77 Room temperature persistent photoconductivity in GaP:S

- K. Mizoguchi, N. Kachi, H. Sakamoto,
K. Yoshioka, S. Masubuchi and S. Kazama
- F. J. García-Rodríguez, J. F. Pérez-Robles,
J. González-Hernández, Y. Vorobiev,
S. Jiménez-Sandoval and A. Manzano-Ramírez
- Z. B. Guo, W. Yang, Y. T. Shen and Y. W. Du
- T. Ono, T. Ishii, S. Tanuma and I. Yoshida
- J. Lu and L. Zhang
- M. Hübner, J. Kuhl, S. Haas, T. Stroucken,
S. W. Koch, R. Hey and K. Ploog
- C.-T. Liang, J. E. F. Frost, M. Pepper,
D. A. Ritchie and G. A. C. Jones
- V. M. Fomin, V. N. Gladilin, J. T. Devreese,
E. P. Pokatilov, S. N. Balaban and S. N. Klimin
- B. R. Eggen, J. N. Murrell and L. J. Dunne
- R. G. Jordan and G. Y. Guo
- W. Chen, Y. Xu, Z. Lin, Z. Wang and L. Lin
- L. P. Sosman, T. Abritta, M. R. Amaral Jr,
N. Cella and H. Vargas
- L. G. C. Rego, P. Hawrylak and J. A. Brum
- 81 The effect of oxygen on the ESR linewidth in polypyrrole doped by PF_6^-
- 85 Surface enhanced Raman Scattering of graphite on metals
- 89 Magnetic entropy change in $\text{La}_{0.75}\text{Ca}_{0.25-x}\text{Sr}_x\text{MnO}_3$ perovskites
- 93 Magnetic properties of Eu/Se superlattices
- 99 Lattice constant dependence of the electronic states of the simple-cubic $\text{Na}_2\text{MC}_{60}$ ($M = \text{Cs}, \text{Rb}$)
- 105 Suppression of the Bragg reflection in semiconductor multiple quantum wells by excitation induced dephasing
- 109 Experimental studies of T-shaped quantum dot transistors: phase-coherent electron transport
- 113 Phonon-assisted optical transitions in spherical nanocrystals
- 119 Hydrogen — the first alkali metal?
- 125 Core level shifts and density of states at the (100) surface of Cu_3Au
- 129 Formation, structure and fluorescence of CdS clusters in a mesoporous zeolite
- 135 Optical properties of $\text{LiGaTiO}_4:\text{Fe}^{3+}$
- 139 Electronic structure of holes in modulation doped $p\text{-Si}_{1-x}\text{Ge}_x/\text{Si}$ strained quantum wells in a magnetic field
- i Keywords

JANUARY

VOLUME 105, NUMBER 3

1998

(Published 12 December 1997)

CONTENTS

- D. Bernaerts, A. Zettl, N. G. Chopra, A. Thess and
R. E. Smalley
- Y. Masumoto and M. Ikezawa
- L. J. Chen and J. T. Lue
- M. F. Lin, C. S. Huang and D. S. Chuu
- B. D. Wissman, T. L. Dull, W. E. Frieze,
D. W. Gidley and M. Skalsey
- M. Venkatesan, U. V. Varadaraju, A. Maignan,
K. V. S. Rama Rao and B. Raveau
- K. Kakinuma and K. Fueki
- I.-K. Jeong, H. L. Park and S.-i. Mho
- S.-i. Fujimori, Y. Saito, N. Sato, T. Komatsubara,
S. Suzuki, S. Sato and T. Ishii
- 145 Electron diffraction study of single-wall carbon nanotubes
- 151 Electron-hole plasma and its pulsation luminescence in CuBr
- 155 Thermal fluctuation of the order parameter symmetry in high T_c superconductors revealed from the penetration depth measurement
- 161 Electronic excitations of an electron-gas cylinder bundle
- 165 Doppler broadening spectroscopy studies of CoSi_2 films
- 169 Observation of magnetic frustration in $\text{Dy}_2\text{Cr}_2\text{C}_3$ system
- 173 Composition and superconductivity of $\text{BaPb}_x\text{Bi}_y\text{O}_z$
- 179 Two self-activated optical centers of blue emission in zinc gallate
- 185 Evidence of mixed valence states in UM_2Al_3 ($M = \text{Ni}, \text{Pd}$) studied by X-ray photoemission spectroscopy

- H. K. Sy and F. Chen 189 Curie temperatures for a two-component ionic ferromagnetic superlattice
- M. Sorescu, M. Valeanu, D. Tomuta and D. Barb 195 Investigation of the $RFe_{10}M_2$ ($R = U; Sm; Y$ and $M = Si; V; Mn$) system by magnetic and Mössbauer studies
- M. R. Singh and S. B. Barrie 201 Calculation of Neel temperature in quasi-two dimensional antiferromagnetic solids: application to La_2CuO_4
- i Keywords

JANUARY

VOLUME 105, NUMBER 4

1998

(Published 19 December 1997)

CONTENTS

- D. Colignon, E. Mailleux, E. Kartheuser, S. Rodriguez and M. Villeret 205 Isotope splitting of the zero-phonon line of Fe^{2+} in cubic III-V semiconductors
- T. G. Dargam and B. Koiller 211 Interface roughness and the optical properties of quantum wells
- A. W. R. Leitch, V. Alex and J. Weber 215 H_2 molecules in *c*-Si after hydrogen plasma treatment
- R. Dittmar, R. Würschum, W. Ulfert, H. Kronmüller and H.-E. Schaefer 221 Structure and glass transition of amorphous $Zr_{65}Cu_{17.5}Ni_{10}Al_{7.5}$ studied by positron lifetime
- C. H. Lee, D. K. Oh, C. E. Lee, J. I. Jin and S.-J. Chung 225 Conductivity in the I_2 -doped PBMPV conducting polymers
- A. Rajira, A. Abounadi, D. Coquillat, M. Averous, J. Calas and T. Cloitre 229 Excitonic properties and magnetooptical characterization of (Zn, Cd)Se/ZnSe heterostructures
- J. Cieslak and S. M. Dubiel 235 Further support for the inversion in the selective sulphidation of Fe-Cr alloys
- D. P. Webb, X. C. Zou, Y. C. Chan, Y. W. Lam, S. H. Lin, X. Y. Lin, K. X. Lin, S. K. O'Leary and P. K. Lim 239 Evidence for deviations from a single-exponential distribution of conduction band tail states in hydrogenated amorphous silicon: a transient photocurrent analysis
- M. Seshasayee and K. Muruganandam 243 Molecular dynamics study of V_2O_5 glass
- G. Ghosh, V. S. Sastry, C. S. Sundar and T. S. Radhakrishnan 247 Structural transformation in HCP solid C_{70} at low temperatures
- T. Kondo, T. Azuma, T. Yuasa and R. Ito 253 Biexciton lasing in the layered perovskite-type material $(C_6H_{13}NH_3)_2PbI_4$
- N. Konofaos and C. B. Thomas 257 Electronic transport phenomena in devices containing amorphous diamond-like films on silicon
- L. Braicovich, C. Dallera, G. Ghiringhelli, N. B. Brookes and J. B. Goedkoop 263 Magnetic circular dichroism in resonant soft X-ray inelastic scattering: the recovery of the useful information from the raw data
- A. Diegeler, M. Haselhoff, W. Rammensee and H.-J. Weber 269 Observation of CuCl clusters in NaCl by scanning near-field optical microscopy
- Ya. Perlov, H. Ebert, A. N. Yaresko, V. N. Antonov and D. Weller 273 Influence of disorder on the magneto-optical properties of FePt
- F. Liaci, D. Greco, R. Cingolani, D. Campi, C. Rigo and D. Soldani 279 Anisotropic tunneling in InGaAsP/InP multi quantum barrier structure

I Author Index

V Keywords

FEBRUARY

VOLUME 105, NUMBER 5

1998

(Published 13 January 1998)

CONTENTS

- | | |
|--|--|
| S. B. Dugdale and T. Jarlborg | 283 Thermal disorder versus correlation in Compton profiles from alkali metals |
| A. Sokolov, H. Wada, M. Shiga and T. Goto | 289 Multiple magnetic phase transitions of $\text{Gd}_{1-x}\text{La}_x\text{Mn}_2\text{Ge}_2$ |
| I. Eremin | 293 Non-Fermi liquid correction to uniform spin susceptibility of singlet band below T_c |
| N. G. Chopra and A. Zettl | 297 Measurement of the elastic modulus of a multi-wall boron nitride nanotube |
| J. Wrzesinski and D. Fröhlich | 301 Determination of electronic parameters of ZnO by nonlinear spectroscopy |
| H. Kalkan and F. Köksal | 307 Electron paramagnetic resonance of VO^{2+} in $\text{Cd}(\text{HCOO})_2 \cdot 2\text{H}_2\text{O}$ and $\text{Pb}(\text{HCOO})_2$ single crystals |
| T. Ruf, M. Cardona, H. Sternschulte, S. Wahl, K. Thonke, R. Sauer, P. Pavone and T. R. Anthony | 311 Cathodoluminescence investigation of isotope effects in diamond |
| J. von Behren, T. van Buuren, M. Zacharias, E. H. Chimowitz and P. M. Fauchet | 317 Quantum confinement in nanoscale silicon: the correlation of size with bandgap and luminescence |
| I. P. Aleksandrova, A. A. Sukhovskiy and K. S. Aleksandrov | 323 Novel incommensurate phase in $\text{Cs}_3\text{Bi}_2\text{I}_9$ |
| A. D. Klironomos and E. N. Economou | 327 Elastic wave band gaps and single scattering |
| N. Keller, M. Guyot, A. Das, M. Porte and R. Krishnan | 333 Study of the interdiffusion at the interfaces of $\text{NiO}/\alpha\text{Fe}_2\text{O}_3$ multilayers prepared by pulsed laser deposition |
| I. Ardelean, M. Peteanu, S. Filip, V. Simon and I. Todor | 339 EPR and magnetic susceptibility studies of manganese ions in $\text{Bi}_2\text{O}_3\text{--GeO}_2$ glasses |
| S. Lee, J. Y. Park, Y. S. Park, Y. W. Park, Y. Li, D. Zhu, K. Tada, T. Kawai and K. Yoshino | 345 Photophysical properties of a new C_{60} -derivative and its composite with poly(3-dodecylthiophene) |
| D. K. Sarkar, S. Bera, S. Dhara, S. V. Narasimhan, S. Chowdhury and K. G. M. Nair | 351 GIXRD and XPS study of the ion beam mixed $\text{Au}/\text{Si}(111)$ system |

I Keywords

FEBRUARY

VOLUME 105, NUMBER 6

1998

(Published 14 January 1998)

CONTENTS

- | | |
|--|--|
| A. Watterich and A. Hofstaetter | 357 O^- - Li_{Zn} centers in Li-doped ZnWO_4 single crystals characterized by ESR and ENDOR spectroscopy |
| K. M. Hong, K. W. Tse and P. Y. Foo | 363 Density-of-states in a rough quantum wire |
| V. Vescoli, L. Degiorgi, B. Buschinger, W. Guth, C. Geibel and F. Steglich | 367 The optical properties of RuSi: Kondo insulator or conventional semiconductor? |
| R. Srinivasa Gopalan and G. U. Kulkarni | 371 A Mn K-EXAFS study of $\text{Y}_{0.5}\text{Ca}_{0.5}\text{MnO}_3$ |
| G. S. Nunes, P. B. Allen and J. L. Martins | 377 Electronic structure of silver halides |
| J. Kawai, T. Yamamoto, Y. Harada and S. Shin | 381 Fluorine $K\alpha$ X-ray fluorescence spectra of MnF_2 excited at threshold |

- H. M. Branz 387 Hydrogen collision model of light-induced metastability in hydrogenated amorphous silicon
- Y.-G. Zhao, Y.-D. Qin, X.-L. Huang, J.-J. Wang, Y.-H. Zou, R. A. Masut and M. Beaudoin 393 Photoexcited carrier diffusion dependence of differential reflection dynamics in $\text{InAs}_x\text{P}_{1-x}/\text{InP}$ ($x \leq 0.35$) strained-multiple-quantum wells
- D. C. Look, D. C. Reynolds, J. R. Sizelove, R. L. Jones, C. W. Litton, G. Cantwell and W. C. Harsch 399 Electrical properties of bulk ZnO
- D. P. Yu, C. S. Lee, I. Bello, X. S. Sun, Y. H. Tang, G. W. Zhou, Z. G. Bai, Z. Zhang and S. Q. Feng 403 Synthesis of nano-scale silicon wires by excimer laser ablation at high temperature
- Z. Heping, L. Zhengyou, S. Jiarui, L. Youyan and P. M. Hui 409 The mechanical properties of induced electrorheological solid
- L. Fu and L. Resca 413 Nonlinear response of composite systems containing spheres of arbitrary response
- I Keywords

FEBRUARY

VOLUME 105, NUMBER 7

1998

(Published 19 January 1998)

CONTENTS

- K. Knorr and A. Krimmel 419 Neutron diffraction studies of the phase diagram of $(\text{ND}_4)_x\text{K}_{1-x}\text{I}$
- J. K. Jung, Y. M. Seo and S. H. Choh 423 ^{14}N NQR relaxation study in $\text{Na}_{1-x}\text{Ag}_x\text{NO}_2$ mixed crystals
- J. E. Eldridge, Y. Lin, T. C. Mayadunne, L. K. Montgomery, S. Kaganov and T. Miebach 427 Resonant Raman scattering from a charge-density-wave system (TTF-TCNQ)
- B. Gorshunov, A. Volkov, A. K. Prokhorov, M. Kondrin, A. Semeno, S. Demishev, A. Dmitriev, Z. Kovalyuk and G. Lashkarev 433 "Intrinsic" transport properties of InSe studied by millimeter and submillimeter spectroscopy
- P. Vaněk, Z. Zikmund, J. Kroupa, A. Pronin, S. Kamba and J. Petzelt 439 Properties of a new weak ferroelectric-cyclohexane-1,1'-diacetic acid
- Y. Lin, B. Zhang, Y. Xin, C. Guo, L. Dai, D. Zhou and C. Huang 445 Observation of the disk mode pattern in organic microdisk
- R. Jacquemin, S. Kraus and W. Eberhardt 449 Direct observation of the dynamics of excited electronic states in solids: f-sec time resolved photoemission of C_{60}
- P. K. Jha and S. P. Sanyal 455 Phonon anomalies in intermediate valent $\text{Sm}_x\text{La}_{1-x}\text{S}$
- C. Kübert and P. J. Hirschfeld 459 Vortex contribution to specific heat of dirty *d*-wave superconductors: breakdown of scaling
- B. Jogai 465 Effect of hydrostatic strain on the band gap of wurtzite GaN
- T. Isobe, R. A. Weeks and R. A. Zuhr 469 Magnetic properties of nanosize nickel particles produced in silica glasses by ion-implantation and subsequent annealing
- T. Domanski, J. Ranninger and J. M. Robin 473 The atomic limit of the Boson-Fermion model
- J. N. Yao and B. H. Loo 479 Improved visible-light photochromism in $\text{Au}/\text{MoO}_3\text{SnO}_2$ thin films
- I Keywords

FEBRUARY

VOLUME 105, NUMBER 8

1998

(Published 23 January 1998)

CONTENTS

- J. M. Crettez, A. Righi, C. Galez, P. Bourson and R. L. Moreira 481 Dielectric response of α -LiIO₃ acid type crystals
- H. Akutsu, K. Kato, E. Arai, H. Kobayashi, A. Kobayashi, M. Tokumoto, L. Brossard and P. Cassoux 485 A coupled metal–insulator and antiferromagnetic transition of λ -(BETS)₂FeCl₄ under high-pressure and magnetic field [BETS = bis(ethylenedithio)tetraselenafulvalene]
- Yu. M. Shul'ga, N. Yu Shul'ga and A. Graja 491 X-ray photoelectron spectroscopic study of C₆₀·2(Ph₃P)AuCl·0.1C₆H₅CH₃
- I. A. Buyanova, J. P. Bergman, B. Monemar, H. Amano, I. Akasaki, A. Wyszomolek, P. Lomiak, J. M. Baranowski, K. Pakula, R. Stepniewski, K. P. Korana, I. Grzegory, M. Bockowski and S. Porowski 497 Effects of defect scattering on the photoluminescence of exciton-polaritons in *n*-GaN
- T. Kondo, S. Iwamoto, S. Hayase, K. Tanaka, J. Ishi, M. Mizuno, K. Ema and R. Ito 503 Resonant third-order optical nonlinearity in the layered perovskite-type material (C₆H₁₃NH₃)₂PbI₄
- N. J. M. Horing and Y. Ayaz 507 Response dynamics of 2D plasmons coupled with optical phonons in bulk and near an interface
- P. Bruelemans, P. Janssen, H. Schets, G. Borghs and J. Witters 513 Far-infrared study of an InAs-GaSb quantum well
- J.-M. Liu and Z. G. Liu 517 Phase precipitation on grain boundaries in binary alloys: a Monte-Carlo approach
- Y. Wu, T. Yang, L. Chen and L. Li 523 Morphology studies on Au/YBa₂Cu₃O_{7- δ} composite thin films
- Yu. E. Lozovik and A. V. Poushnov 527 Unusual Raman scattering by Bose-condensed excitons
- J. F. Jia, Y. Hasegawa, T. Sakurai and H. Zhang 533 Local work function measurement on Bi₂Sr₂CaCu₂O_y single crystal with STM
- H. Chen and Y. Chen 537 Influence of the Aharonov–Bohm flux on the optical polarons in the molecular-crystal model with the dispersion term in a ring
- S. Bhattacharyya, A. Rastogi, S. V. Bhat, K. S. R. K. Rao, S. V. Subramanyam and D. Kanjilal 543 Electron spin resonance study on high energy heavy ion irradiated conducting carbon films

I Author Index

V Keywords

MARCH

VOLUME 105, NUMBER 9

1998

(Published 3 February 1998)

CONTENTS

- B. K. Jones, J. Santana and M. McPherson 547 Ohmic I–V characteristics in semi-insulating semiconductor diodes
- J. Y. Kim, J. S. Schilling and K. F. Kelton 551 Magnetic susceptibility in Ti–(Cr, Mn)–Si–O 1/1 crystal approximant as a function of oxygen concentration — no evidence for a minimum in $N(E_F)$
- Y. Yoshida, Y. Kubozono, T. Urakawa, H. Maeda, S. Kashino, Y. Murakami, T. Ohta, F. Izumi, K. Yamada and Y. Furukawa 557 Temperature dependence of atomic displacements in superconductor K₂RbC₆₀

- R. Kato, Y. Kashimura, S. Aonuma, N. Hanasaki and H. Tajima 561 A new molecular superconductor β' -Et₂Me₂P[Pd(dmit)₂]₂ (dmit = 2-thioxo-1,3-dithiole-4,5-dithiolate)
- B. García-Landa, M. R. Ibarra, J. M. De Teresa, G.-m. Zhao, K. Conder and H. Keller 567 Oxygen-isotope effect on the field-induced metal-insulator transition in Pr_{2/3}Ca_{1/3}MnO₃
- K. Suzuki, G. Bley, U. Neukirch, J. Gutowski, N. Takojima, T. Sawada and K. Imai 571 Stretched-exponential decay of the luminescence in ZnSe-ZnTe superlattices
- P. J. Jensen and K. H. Bennemann 577 Theory for the temperature driven continuous and discontinuous reorientation of the thin film magnetization
- D. Groult, C. Martin, A. Maignan, D. Pelloquin and B. Raveau 583 The "1201" bismuth based cobaltite Bi_{0.5}Cd_{0.3}Sr₂Co_{1.2}O_{5- δ} : a new magnetoresistant spin glass like insulator
- V. B. Podobedov, A. Weber, D. B. Romero, J. P. Rice and H. D. Drew 589 Raman scattering in La_{1-x}Sr_xMnO₃ single crystals ($x = 0, 0.1, 0.2, 0.3$)
- D. S. Yang and S. K. Joo 595 EXAFS study for slightly anharmonic vibrational system
- Y. Du, B. Wu, X. Zhang and X. Qin 601 The study of ultrasonic longitudinal velocities for nanostructured NiAl alloys by laser ultrasonic technique
- R. S. Liu, L. Y. Jang, J. M. Chen, J. B. Wu, R. G. Liu, J. G. Lin and C. Y. Huang 605 X-ray absorption near edge structure studies of colossal magnetoresistance ferromagnet (La_{1.4}Sr_{1.6})Mn₂O₇

I Keywords

MARCH

VOLUME 105, NUMBER 10

1998

(Published 9 February 1998)

CONTENTS

- L.-g. Zhang, B.-g. Shen, S.-y. Zhang, H.-w. Zhang and F.-w. Wang 609 Magnetocrystalline anisotropy of Sm₂(Fe_{1-x}Co_x)₁₅ ($x = 0-1$) compounds
- R. V. Chepulsii and V. N. Bugaev 615 Analytical method for calculation of the short-range order in alloys
- S. K. O'Leary, B. E. Foutz, M. S. Shur, U. V. Bhapkar and L. F. Eastman 621 Monte Carlo simulation of electron transport in wurtzite aluminum nitride
- T. G. Castner 627 Low-frequency antiferromagnetic resonance of RbMnF₃ near the Néel temperature
- S. Handschuh and S. Blügel 633 Magnetic exchange coupling of 3d metal monolayers on Fe(001)
- T. Adachi, K. Shiota, M. Kato, T. Noji and Y. Koike 639 Electrical and magnetic anomalies in the spin-ladder cuprate Sr_{14-x}A_xCu₂₄O₄₁ (A = Ca, Y, La): possibility of hole pairing in the ladder
- N. Malde, P. S. I. P. N. de Silva, A. K. M. Akther Hossain, L. F. Cohen, K. A. Thomas, J. L. MacManus-Driscoll, N. D. Mathur and M. G. Blamire 643 Influence of oxygen stoichiometry on Raman phonon spectroscopy, lattice parameters and physical properties of La_{0.7}Ca_{0.3}MnO₃ thin films
- K. Reimann and M. Steube 649 Experimental determination of the electronic band structure SnO₂
- U. Tritthart, A. Gavriluk and W. Gey 653 Low temperature photochromism in quasi-amorphous MoO₃ films
- D. V. Averin 659 Adiabatic quantum computation with Cooper pairs

I Keywords

MARCH

VOLUME 105, NUMBER 11

1998

(Published 18 February 1998)

CONTENTS

- | | | |
|--|-----|---|
| S. Goedecker and O. V. Ivanov | 665 | Linear scaling solution of the Coulomb problem using wavelets |
| G. Liu and E.-G. Wang | 671 | Extended molecular dynamics scheme for crystals with fully relaxed size and shape |
| P. Wachter, F. Bommeli, L. Degiorgi, P. Burlet, F. Bourdarot and E. Kaldis | 675 | The blue shift of the plasma edge of a ferromagnetic semimetal |
| T. Tsujibayashi, K. Toyoda and T. Hayashi | 681 | Time-resolved study of free exciton luminescence in KI and RbI |
| S. Marchesini, M. Belakhovsky, A. Q. R. Baron, G. Faigel, M. Tegze and P. Kamp | 685 | Standing waves and Kossel line patterns in structure determination |
| K. W. Yu | 689 | Mean field theory for lossy nonlinear composites |
| S. Guha, V. J. Leppert, S. H. Risbud and I. Kang | 695 | Observation of excitonic states in PbSe nanocrystals |
| L. Braginsky and V. Shklover | 701 | Influence of interface structure on transversal electron transport |
| H.-L. Shen, Q.-W. Shen, J.-S. Yan, D.-F. Shen and S.-C. Zou | 705 | Giant magnetoresistance in NiFeCo/Cu/Co/Cu/NiFeCo multilayers prepared by electron-beam evaporation |
| M. S. Han, T. W. Kang and T. W. Kim | 709 | The dependence of the strain effects on the CdTe layer thicknesses in CdTe/GaAs heterostructures |
| M. Vedawyas and A. Bhagwat | 713 | Annealing studies of Zn and Fe doped epitaxially grown YBCO thin films |
| S. Mitra, R. Mukhopadhyay, K. T. Pillai and V. N. Vaidya | 719 | Diffusion of water in porous alumina: neutron scattering study |

I Keywords

MARCH

VOLUME 105, NUMBER 12

1998

(Published 19 February 1998)

CONTENTS

- | | | |
|--|-----|--|
| M. Harris and P. Ballone | 725 | Collective excitations of simple metal clusters by the quantum Monte Carlo method |
| C. Totsuji and T. Matsubara | 731 | Deuteration induced phase transition in hydrogen bond |
| Y. Park | 735 | X-ray studies in ZrTiO ₄ ceramics under a high electric field |
| A. Dubey and P. Sen | 739 | Temperature dependent second order susceptibility in BaTiO ₃ |
| M. Koyano and R. Kurita | 743 | Magnetization of quasi-two-dimensional conductor η -Mo ₄ O ₁₁ |
| A. Melliti, M. A. Maaref, R. Planel and J. M. Gerard | 747 | Effects of localized perturbations on Fano resonance in GaAs-AlAs quantum well |
| I. Coulthard and T. K. Sham | 751 | Novel preparation of noble metal nanostructures utilizing porous silicon |
| S. Hazra and S. Ray | 755 | Development of low and high bandgap amorphous silicon without alloying by germanium and carbon and their feasibility as active layers in the solar cells |
| V. A. Gunyakov, A. M. Parshin and V. F. Shabanov | 761 | Investigation of the nematic-ferroelectric interface under a strong magnetic field |

S. Raj, B. B. Dhal, H. C. Padhi, D. Behera and
N. C. Mishra

Y. D. Zhao, Y. T. Qian, K. B. Tang and
Y. H. Zhang

C. W. Lee, M. K. Ko, S. L. Woo, H. W. Oh,
S. J. Gho and J. Y. Lee

767 Evidence in favour of no appreciable $\text{Cu}(3d)\text{--O}(2p)$ hybridization
in undoped and Zn doped YBCO superconductors

773 Coulomb effects in perovskite oxide $\text{BaPb}_{1-x}\text{Zr}_x\text{O}_3$ near the
metal-insulator transition

777 Comparison of the stress between rapid thermal annealed and
excimer laser annealed polycrystalline silicon thin films

I Author Index

XI Keywords



AUTHOR INDEX

- | | |
|-----------------------------------|---------------------------|
| Abounadi, A. (4) 229 | Behera, D. (12) 767 |
| Abritta, T. (2) 135 | Behra, S. N. (1) 47 |
| Adachi, T. (10) 639 | Bek, A. (1) 21 |
| Akasaki, I. (8) 497 | Belakhovsky, M. (11) 685 |
| Akther Hossain, A. K. M. (10) 643 | Bello, I. (6) 403 |
| Akutsu, H. (8) 485 | Bennemann, K. H. (9) 577 |
| Aleksandrov, K. S. (5) 323 | Bera, S. (5) 351 |
| Aleksandrova, I. P. (5) 323 | Bergman, J. P. (8) 497 |
| Alex, V. (4) 215 | Bernaerts, D. (3) 145 |
| Allen, P. B. (6) 377 | Bhagwat, A. (11) 713 |
| Amano, H. (8) 497 | Bhapkar, U. V. (10) 621 |
| Amaral Jr, M. R. (2) 135 | Bhat, S. V. (8) 543 |
| Anthony, T. R. (5) 311 | Bhattacharyya, S. (8) 543 |
| Antonov, V. N. (4) 273 | Blamire, M. G. (10) 643 |
| Aonuma, S. (9) 561 | Bley, G. (9) 571 |
| Arai, E. (8) 485 | Blin, R. (1) 13 |
| Ardelean, I. (5) 339 | Blügel, S. (10) 633 |
| Averin, D. V. (10) 657 | Bockowski, M. (8) 497 |
| Averous, M. (4) 229 | Bommeli, F. (11) 675 |
| Ayaz, Y. (8) 507 | Borghs, G. (8) 513 |
| Aydinli, A. (1) 21 | Bourdarot, F. (11) 675 |
| Azuma, T. (4) 253 | Bourson, P. (8) 481 |
| | Braginsky, L. (11) 701 |
| Baggio-Saitovitch, E. M. (1) 37 | Braicovich, L. (4) 263 |
| Bahng, J. H. (1) 17 | Branz, H. M. (6) 387 |
| Bai, Z. G. (6) 403 | Brookes, N. B. (4) 263 |
| Balaban, S. N. (2) 113 | Brossard, L. (8) 485 |
| Ballone, P. (12) 725 | Bruelemans, P. (8) 513 |
| Baranowski, J. M. (8) 497 | Brum, J. A. (2) 139 |
| Barb, D. (3) 195 | Bugaev, V. N. (10) 615 |
| Baron, A. Q. R. (11) 685 | Burlet, P. (11) 675 |
| Barrie, S. B. (3) 201 | Buschinger, B. (6) 367 |
| Bartkowski, S. (1) 65 | Buyanova, I. A. (8) 497 |
| Beaudoin, M. (6) 393 | |

- Calas, J. (4) 229
Campi, D. (4) 281
Cantwell, G. (6) 399
Cardona, M. (5) 311
Cassoux, P. (8) 485
Castner, T. G. (10) 627
Cella, N. (2) 135
Cevc, P. (1) 13
Chan, Y. C. (4) 239
Chang, H.-S. (1) 25
Chen, Y. (8) 537
Chen, W. (2) 129
Chen, J. M. (9) 605
Chen, H. (8) 537
Chen, L. (8) 523
Chen, L. J. (3) 155
Chen, F. (3) 189
Cheng, C. H. (1) 31
Chepulsii, R. V. (10) 615
Cherkashenko, V. M. (1) 65
Chimowitz, E. H. (5) 317
Choe, B. D. (1) 1
Choh, S. H. (7) 423
Chopra, N. G. (3) 145
Chopra, N. G. (5) 297
Chowdhury, S. (5) 351
Chung, S.-J. (4) 225
Chung, M. (1) 25
Chuu, D. S. (3) 161
Cieślak, J. (4) 235
Cingolani, R. (4) 281
Cloitre, T. (4) 229
Cohen, L. F. (10) 643
Colignon, D. (4) 205
Conder, K. (9) 567
Coquillat, D. (4) 229
Coulthard, I. (12) 751
Crettez, J. M. (8) 481

Dai, L. (7) 445
Dallera, C. (4) 263

Dargam, T. G. (4) 211
Das, A. (5) 333
de Silva, P. S. I. P. N. (10) 643
De Teresa, J. M. (9) 567
Degiorgi, L. (11) 675
Degiorgi, L. (6) 367
Demishev, S. (7) 433
Devreese, J. T. (2) 113
Dhal, B. B. (12) 767
Dhara, S. (5) 351
Diegeler, A. (4) 269
Dittmar, R. (4) 221
Dmitriev, A. (7) 433
Doh, Y. J. (1) 25
Domanski, T. (7) 473
Drew, H. D. (9) 589
Du, Y. (9) 601
Du, Y. W. (2) 89
Dubey, A. (12) 739
Dubiel, S. M. (4) 235
Dugdale, S. B. (5) 283
Dull, T. L. (3) 165
Dunne, L. J. (2) 119

Eastman, L. F. (10) 621
Eberhardt, W. (7) 449
Ebert, H. (4) 273
Economou, E. N. (5) 327
Eggen, B. R. (2) 119
Eldridge, J. E. (7) 427
Ema, K. (8) 503
Eremin, I. (5) 293
Euthymiou, P. C. (2) 77
Ezhov, A. V. (1) 65

Faigel, G. (11) 685
Fauchet, P. M. (5) 317
Feng, S. Q. (6) 403
Filip, S. (5) 339
Fomin, V. M. (2) 113
Foo, P. Y. (6) 363

- Foutz, B. E. (10) 621
Frieze, W. E. (3) 165
Fröhlich, D. (5) 301
Frost, J. E. F. (2) 109
Fu, L. (6) 413
Fueki, K. (3) 173
Fujimori, S.-i. (3) 185
Furukawa, Y. (9) 557
- Galez, C. (8) 481
Gangopadhyay, A. K. (1) 65
García, S. (1) 37
García-Landa, B. (9) 567
García-Rodríguez, F. J. (2) 85
Gasanly, N. M. (1) 21
Gavrilyuk, A. (10) 653
Geibel, C. (6) 367
Gerard, J. M. (12) 747
Gey, W. (10) 653
Ghiringhelli, G. (4) 263
Gho, S. J. (12) 777
Ghosh, G. (4) 247
Gidley, D. W. (3) 165
Giordanengo, B. (1) 37
Gladilin, V. N. (2) 113
Goedecker, S. (11) 665
Goedkoop, J. B. (4) 263
González-Hernández, J. (2) 85
Gorshunov, B. (7) 433
Goto, T. (5) 289
Graja, A. (8) 491
Greco, D. (4) 281
Grecu, M. N. (1) 13
Groult, D. (9) 583
Grzegory, I. (8) 497
Gu, G. D. (1) 31
Guha, S. (11) 695
Gunyakov, V. A. (12) 761
Guo, G. Y. (2) 125
Guo, Z. B. (2) 89
Guo, C. (7) 445
- Guth, W. (6) 367
Gutowski, J. (9) 571
Guyot, M. (5) 333
- Haas, S. (2) 105
Han, M. S. (11) 709
Han, S. H. (1) 31
Hanasaki, N. (9) 561
Handschuh, S. (10) 633
Harada, Y. (6) 381
Harris, M. (12) 725
Harsch, W. C. (6) 399
Hasegawa, Y. (8) 533
Haselhoff, M. (4) 269
Hawrylak, P. (2) 139
Hayase, S. (8) 503
Hayashi, T. (11) 681
Hazra, S. (12) 755
Heping, Z. (6) 409
Hey, R. (2) 105
Hirschfeld, P. J. (7) 459
Hofstaetter, A. (6) 357
Hong, K. M. (6) 363
Horing, N. J. M. (8) 507
Hosokawa, H. (1) 7
Huang, C. Y. (9) 605
Huang, X.-L. (6) 393
Huang, C. (7) 445
Huang, C. S. (3) 161
Hübner, M. (2) 105
Hui, P. M. (6) 409
Hwang, I. (1) 1
- Ibarra, M. R. (9) 567
Ikezawa, M. (3) 151
Imai, K. (9) 571
Ishi, J. (8) 503
Ishii, T. (3) 185
Ishii, T. (2) 93
Isobe, T. (7) 469
Ito, R. (8) 503

- Ito, R. (4) 253
Ivanov, O. V. (11) 665
Iwamoto, S. (8) 503
Izumi, F. (9) 557
- Jacquemin, R. (7) 449
Jang, L. Y. (9) 605
Janssen, P. (8) 513
Jarlborg, T. (5) 283
Jensen, P. J. (9) 577
Jeong, I.-K. (3) 179
Jha, P. K. (7) 455
Jia, J. F. (8) 533
Jiarui, S. (6) 409
Jiménez-Sandoval, S. (2) 85
Jin, J. I. (4) 225
Jogai, B. (7) 465
Jones, G. A. C. (2) 109
Jones, B. K. (9) 547
Jones, R. L. (6) 399
Joo, S. K. (9) 595
Jordan, R. G. (2) 125
Jung, J. K. (7) 423
- Kachi, N. (2) 81
Kaganov, S. (7) 427
Kakinuma, K. (3) 173
Kaldis, E. (11) 675
Kalkan, H. (5) 307
Kamba, S. (7) 439
Kamp, P. (11) 685
Kanemitsu, Y. (1) 7
Kang, I. (11) 695
Kang, T. W. (11) 709
Kanjilal, D. (8) 543
Kartheuser, E. (4) 205
Kashimura, Y. (9) 561
Kashino, S. (9) 557
Kato, R. (9) 561
Kato, K. (8) 485
Kato, M. (10) 639
- Kawai, T. (5) 345
Kawai, J. (6) 381
Kazama, S. (2) 81
Keller, N. (5) 333
Keller, H. (9) 567
Kelton, K. F. (9) 551
Kim, J.-E. (1) 1
Kim, T. W. (11) 709
Kim, K. J. (1) 17
Kim, J. Y. (9) 551
Klimin, S. N. (2) 113
Klironomos, A. D. (5) 327
Knorr, K. (7) 419
Ko, M. K. (12) 777
Kobayashi, A. (8) 485
Kobayashi, H. (8) 485
Koch, S. W. (2) 105
Koike, Y. (10) 639
Koiller, B. (4) 211
Köksal, F. (5) 307
Komatsubura, T. (3) 185
Kondo, T. (4) 253
Kondo, T. (8) 503
Konofaos, N. (4) 257
Korona, K. P. (8) 497
Koshizuka, N. (1) 31
Kovalyuk, Z. (7) 433
Koyano, M. (12) 743
Kraus, S. (7) 449
Krimmel, A. (7) 419
Krishnan, R. (5) 333
Krondrin, M. (7) 433
Kronmüller, H. (4) 221
Kroupa, J. (7) 439
Kübert, C. (7) 459
Kubozono, Y. (9) 557
Kuhl, J. (2) 105
Kulkarni, G. U. (6) 371
Kurita, R. (12) 743
Kurmaev, E. Z. (1) 65
Kwak, C. Y. (1) 17

- Kwon, H. K. (1) 1
- Lam, Y. W. (4) 239
- Lashkarev, G. (7) 433
- Lee, C. W. (12) 777
- Lee, J. Y. (12) 777
- Lee, N.-Y. (1) 1
- Lee, C. S. (6) 403
- Lee, M. H. (1) 17
- Lee, S. (5) 345
- Lee, C. H. (4) 225
- Lee, H.-J. (1) 25
- Lee, C. E. (4) 225
- Leitch, A. W. R. (4) 215
- Leppert, V. J. (11) 695
- Li, L. (8) 523
- Li, F.-Z. (1) 59
- Li, Y. (5) 345
- Li, D.-H. (1) 59
- Li, Z.-Z. (1) 41
- Liaci, F. (4) 281
- Liang, C.-T. (2) 109
- Lim, P. K. (4) 239
- Lim, H. (1) 1
- Lin, X. Y. (4) 239
- Lin, Z. (2) 129
- Lin, L. (2) 129
- Lin, M. F. (3) 161
- Lin, K. X. (4) 239
- Lin, S. H. (4) 239
- Lin, Y. (7) 427
- Lin, Y. (7) 445
- Lin, J. G. (9) 605
- Litton, C. W. (6) 399
- Liu, G. (11) 671
- Liu, R. S. (9) 605
- Liu, J.-M. (8) 517
- Liu, J.-M. (1) 71
- Liu, Z. G. (8) 517
- Liu, R. G. (9) 605
- Lomiak, P. (8) 497
- Loo, B. H. (7) 479
- Look, D. C. (6) 399
- Lozovik, Yu. E. (8) 527
- Lu, J. (2) 99
- Lu, T. (1) 53
- Lue, J. T. (3) 155
- Maaref, M. A. (12) 747
- MacManus-Driscoll, J. L. (10) 643
- Maeda, H. (9) 557
- Maignan, A. (9) 583
- Maignan, A. (3) 169
- Mailleux, E. (4) 205
- Malde, N. (10) 643
- Manzano-Ramírez, A. (2) 85
- Marchesini, S. (11) 685
- Martin, C. (9) 583
- Martins, J. L. (6) 377
- Masubuchi, S. (2) 81
- Masumoto, Y. (3) 151
- Masut, R. A. (6) 393
- Mathur, N. D. (10) 643
- Matsubara, T. (12) 731
- Mayadunne, T. C. (7) 427
- McPherson, M. (9) 547
- Melliti, A. (12) 747
- Mho, S.-i. (3) 179
- Miebach, T. (7) 427
- Mishra, N. C. (12) 767
- Mitra, S. (11) 719
- Mizoguchi, K. (2) 81
- Mizuno, M. (8) 503
- Monemar, B. (8) 497
- Montgomery, L. K. (7) 427
- Moreira, R. L. (8) 481
- Mukhopadhyay, R. (11) 719
- Murakami, Y. (9) 557
- Murakoshi, K. (1) 7
- Murrell, J. N. (2) 119
- Muruganandam, K. (4) 243
- Musa, J. E. (1) 37

- Nair, K. G. M. (5) 351
Narasimhan, S. V. (5) 351
Neukirch, U. (9) 571
Neumann, M. (1) 65
Noji, T. (10) 639
Nunes, G. S. (6) 377
- Oh, E. (1) 17
Oh, D. K. (4) 225
Oh, H. W. (12) 777
Ohta, T. (9) 557
Okamoto, S. (1) 7
Ono, T. (2) 93
O'Leary, S. K. (4) 239
O'Leary, S. K. (10) 621
- Padhi, H. C. (12) 767
Pakula, K. (8) 497
Panda, B. N. (1) 47
Park, Y. S. (5) 345
Park, H. Y. (1) 1
Park, J. Y. (5) 345
Park, Y. W. (5) 345
Park, H. L. (3) 179
Park, Y. (12) 731
Parshin, A. M. (12) 761
Pavone, P. (5) 311
Pelloquin, D. (9) 583
Pepper, M. (2) 109
Pérez-Robles, J. F. (2) 85
Perlov, Ya. (4) 273
Peteanu, M. (5) 339
Petzelt, J. (7) 439
Pillai, K. T. (11) 719
Planel, R. (12) 747
Ploog, K. (2) 105
Podobedov, V. B. (9) 589
Pokatilov, E. P. (2) 113
Porowski, S. (8) 497
Porte, M. (5) 333
Poushnov, A. V. (8) 527
- Prokhorov, A. K. (7) 433
Pronin, A. (7) 439
- Qian, Y. T. (12) 773
Qin, X. (9) 601
Qin, Y.-D. (6) 393
- Radhakrishnan, T. S. (4) 247
Raj, S. (12) 767
Rajira, A. (4) 229
Rama Rao, K. V. S. (3) 169
Rammensee, W. (4) 269
Ranninger, J. (7) 473
Rao, K. S. R. K. (8) 543
Rastogi, A. (8) 543
Raveau, B. (9) 583
Raveau, B. (3) 169
Ray, S. (12) 755
Rego, L. G. C. (2) 139
Reimann, K. (10) 649
Resca, L. (6) 413
Reynolds, D. C. (6) 399
Rice, J. P. (9) 589
Riesz, F. (2) 77
Righi, A. (8) 481
Rigo, C. (4) 281
Risbud, S. H. (11) 695
Ritchie, D. A. (2) 109
Robin, J. M. (7) 473
Rodriguez, S. (4) 205
Romero, D. B. (9) 589
Rout, G. C. (1) 47
Ruf, T. (5) 311
Russell, G. J. (1) 31
- Saito, Y. (3) 185
Sakamoto, H. (2) 81
Sakurai, T. (8) 533
Santana, J. (9) 547
Sanyal, S. P. (7) 455
Sarkar, D. K. (5) 351

- Sastry, V. S. (4) 247
Sato, N. (3) 185
Sato, S. (3) 185
Sauer, R. (5) 311
Sawada, T. (9) 571
Schaefer, H.-E. (4) 221
Schets, H. (8) 513
Schilling, J. S. (9) 551
Semenov, A. (7) 433
Sen, P. (12) 739
Seo, Y. M. (7) 423
Seshasayee, M. (4) 243
Shabanov, V. F. (12) 761
Sham, T. K. (12) 751
Shamin, S. N. (1) 65
Shen, H.-L. (11) 705
Shen, R. (1) 41
Shen, Y. T. (2) 89
Shen, D.-F. (11) 705
Shen, Q.-W. (11) 705
Shen, B.-g. (10) 609
Shiga, M. (5) 289
Shin, S. (6) 381
Shiota, K. (10) 639
Shklover, V. (11) 701
Shul'ga, Yu. M. (8) 491
Shul'ga, N. Yu. (8) 491
Shur, M. S. (10) 621
Simon, V. (5) 339
Singh, M. R. (3) 201
Sizelove, J. R. (6) 399
Skalsey, M. (3) 165
Smalley, R. E. (3) 145
Sokolov, A. (5) 289
Soldani, D. (4) 281
Sorescu, M. (3) 195
Sosman, L. P. (2) 135
Srinivasa Gopalan, R. (6) 371
Steglich, F. (6) 367
Stepniewski, R. (8) 497
Sternschulte, H. (5) 311
Steube, M. (10) 649
Stroucken, T. (2) 105
Su, W.-H. (1) 53
Subramanyam, S. V. (8) 543
Sukhovsky, A. A. (5) 323
Sun, X. S. (6) 403
Sundar, C. S. (4) 247
Suzuki, S. (3) 185
Suzuki, K. (9) 571
Sy, H. K. (3) 189
Symeonides, Ch. I. (2) 77
Szentpall, B. (2) 77

Tada, K. (5) 345
Tajima, H. (9) 561
Takoima, N. (9) 571
Tanaka, K. (8) 503
Tang, Y. H. (6) 403
Tang, K. B. (12) 773
Tanuma, S. (2) 93
Tegze, M. (11) 685
Theodorou, D. E. (2) 77
Thess, A. (3) 145
Thomas, C. B. (4) 257
Thomas, K. A. (10) 643
Thonke, K. (5) 311
Todor, I. (5) 339
Tokumoto, M. (8) 485
Tomuta, D. (3) 195
Totsuji, C. (12) 731
Toyoda, K. (11) 681
Tritthart, U. (10) 653
Tse, K. W. (6) 363
Tsujibayashi, T. (11) 681

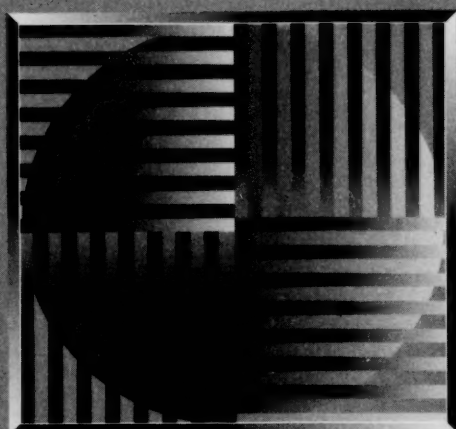
Ulfert, W. (4) 221
Urakawa, T. (9) 557

Vaidya, V. N. (11) 719
Valeanu, M. (3) 195
van Buuren, T. (5) 317

- Vaněk, P. (7) 439
Varadaraju, U. V. (3) 169
Vargas, H. (2) 135
Vedawyas, M. (11) 713
Venkatesan, M. (3) 169
Vescoli, V. (6) 367
Villeret, M. (4) 205
Volkov, A. (7) 433
von Behren, J. (5) 317
Vorobiev, Y. (2) 85
- Wachter, P. (11) 675
Wada, H. (5) 289
Wahl, S. (5) 311
Wang, F.-w. (10) 609
Wang, J.-J. (6) 393
Wang, E.-G. (11) 671
Wang, Z. (2) 129
Watterich, A. (6) 357
Webb, D. P. (4) 239
Weber, J. (4) 215
Weber, A. (9) 589
Weber, H.-J. (4) 269
Weeks, R. A. (7) 469
Weller, D. (4) 273
Wissman, B. D. (3) 165
Witters, J. (8) 513
Woo, S. L. (12) 777
Wrzesinski, J. (5) 301
Wu, J. B. (9) 605
Wu, B. (9) 601
Wu, S. (1) 53
Wu, X. (1) 53
Wu, Y. (8) 523
Würschum, R. (4) 221
Wysmolek, A. (8) 497
- Xin, Y. (7) 445
Xu, Y. (2) 129
- Yamada, K. (9) 557
- Yamamoto, T. (6) 381
Yan, J.-S. (11) 705
Yanagida, S. (1) 7
Yang, W. (2) 89
Yang, T. (8) 523
Yang, D. S. (9) 595
Yang, B. (1) 53
Yang, C. F. (1) 31
Yao, J. N. (7) 479
Yaresko, A. N. (4) 273
Yilmaz, I. (1) 21
Yoshida, Y. (9) 557
Yoshida, I. (2) 93
Yoshino, K. (5) 345
Yoshioka, K. (2) 81
Youyan, L. (6) 409
Yu, K. W. (11) 689
Yu, D. P. (6) 403
Yuasa, T. (4) 253
- Zacharias, M. (5) 317
Zardas, G. E. (2) 77
Zetl, A. (3) 145
Zetl, A. (5) 297
Zhang, Z. (6) 403
Zhang, B. (7) 445
Zhang, H. (8) 533
Zhang, L. (2) 99
Zhang, C. (1) 53
Zhang, S.-y. (10) 609
Zhang, L.-g. (10) 609
Zhang, X. (9) 601
Zhang, H. (1) 31
Zhang, H.-w. (10) 609
Zhang, Y. H. (12) 773
Zhao, Y.-G. (6) 393
Zhao, Y. (1) 31
Zhao, Y. D. (12) 773
Zhao, G.-m. (9) 567
Zheng, Y. (1) 53
Zhengyou, L. (6) 409

Zhou, D. (7) 445
Zhou, G. W. (6) 403
Zhou, Y.-Y. (1) 59
Zhu, D. (5) 345
Zikmund, Z. (7) 439

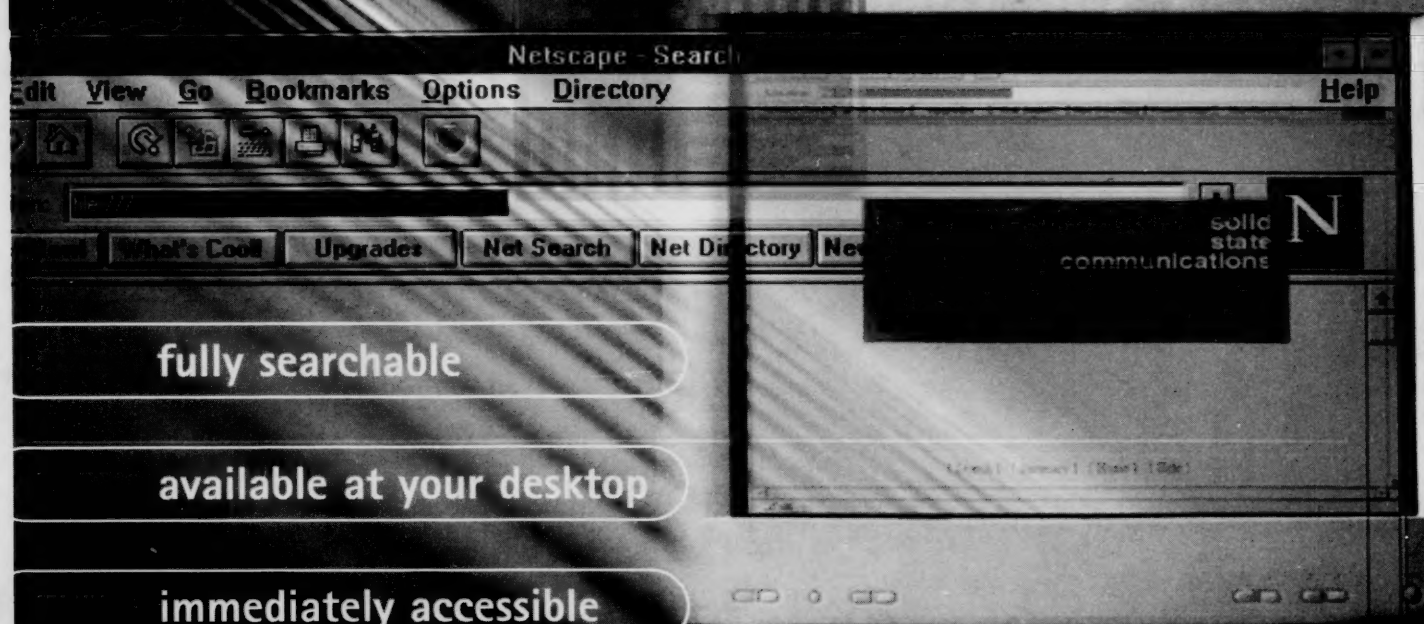
Zou, Y.-H. (6) 393
Zou, X. C. (4) 239
Zou, S.-C. (11) 705
Zuhr, R. A. (7) 469



**solid
state
communications**

Online

<http://www.elsevier.com/locate/ssconline>



P E R G A M O N
An imprint of Elsevier Science

NEW! Contents *by e-mail* FREE!



SOLID STATE COMMUNICATIONS



The pre-publication e-mail contents service

- **Free of charge**
- **Pre-publication** - Contents pages delivered by e-mail, two to four weeks pre-publication
- **Easy to use**
- **Frequent** - Sent by e-mail on an issue-by-issue basis

Don't wait for your existing contents service to catch up!

✍ Sign up today! ✍

☐ **Yes**, I would like to sign up for ***Solid State Communications*** (00230)

	First Name	Surname
<input type="checkbox"/> Mr <input type="checkbox"/> Ms <input type="checkbox"/> Prof <input type="checkbox"/> Dr		
University/Institution/Company		
Department		
Postal or Street Address		
City and Zip Code		
Country		
Internet e-mail address		

IMPORTANT: ContentsDirect can be sent to your Internet e-mail address only. If in doubt about your Internet e-mail address, contact your institution's information technology/telecommunications department for advice.

Simply fax or mail this form to:

North America: Elsevier Science Inc. Marketing Dept., 660 White Plains Road, Tarrytown, NY 10591-5153 USA

Tel: +1 (914) 524-9200. Fax: +1 (914) 333-2444.

Rest of World: Elsevier Science Ltd. Marketing Dept., The Boulevard, Langford Lane, Kidlington, Oxford OX5 1GB, UK

Tel: +44 (0) 1865 843784 Fax: +44 (0) 1865 843986.

Or e-mail your ContentsDirect request stating your name, full mailing address, e-mail number, and the title to which you wish to subscribe, to: p.mestecky@elsevier.co.uk

CD591

